CLAIMS

Having thus described our invention, what we claim as new and desire to secure by Letters Patent is as follows:

1	1. A computer implemented system analysis and design method for use in a
2	complex business environment characterized by a set of tightly linked
3	business processes comprising the steps of:
4	capturing in a framework a world view of a business decision and/or a
5	business application software system, wherein a world view is defined by
6	business objectives, constraints, assumptions, data, and underlying model used
7	in business decision and/or the application software system; and
8	using the framework to specify and document each business decision
9	and/or business application software system in the complex environment.
1	2. The computer implemented system analysis and design method recited in
2	claim 1, wherein a BDML (Business Decision Markup Language) is used to
3	implement the framework for specifying the world view of a business decision
4	and/or a business application software system.
1	3. The computer implemented system analysis and design method recited in

- 3. The computer implemented system analysis and design method recited in claim 2, wherein the BDML is used for the creation and maintenance of a knowledge base of business decisions and processes within an organization.
- 4. The computer implemented system analysis and design method recited in claim 2, wherein the BDML is used for the publication of the functional specification of a business application software system, the world view of a technical research paper in the area of business decisions and its findings.

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1	5. The computer implemented system analysis and design method recited in
2	claim 2, wherein the BDML is machine-readable by a BDML processor as
3	well as readable by human users so that it can be used for systematic
4	documentation of business objectives, constraints, assumptions, data, and
5	underlying model in business processes and/or application software systems.
1	6. The computer implemented system analysis and design method recited in
2	claim 2, wherein the BDML supports XML (eXtensible Markup Language)
3	based standards for business to business exchanges.
1	7. A BDML (Business Decision Markup Language) processor comprising:
2	a syntax processor that checks the syntax correctness and syntax
3	consistency within an individual and between different documents written in
4	BDML;
5	a logic processor that checks logical consistency between different
6	documents written in BDML, in terms of the business objectives, constraints,
7	assumptions, data, and underlying model among the different documents; and
8	a knowledge-based processor including a knowledge base of business
9	decisions, common choices for their decision support models and
10	commercially available decision support systems, the knowledge-based
11	processor providing suggestions for a set of BDML documents to improve
12	consistency using the knowledge base.